

09/856,543

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\*\*\* YOU HAVE NEW MAIL \*\*\*

=> s conductive surface and oligomer?

L1 379 CONDUCTIVE SURFACE AND OLIGOMER?

=> s l1 and double strand?

L2 52 L1 AND DOUBLE STRAND?

=> s l2 and double strand? (5a) conduct? (4a) surface

L3 0 L2 AND DOUBLE STRAND? (5A) CONDUCT? (4A) SURFACE

=> s l2 and hybrid?(5a) conduct? (4a) surface?

L4 3 L2 AND HYBRID?(5A) CONDUCT? (4A) SURFACE?

=> dup rem l4

PROCESSING COMPLETED FOR L4

L5 3 DUP REM L4 (0 DUPLICATES REMOVED)

=> d l5 bib abs 1-3

L5 ANSWER 1 OF 3 USPATFULL on STN

AN 2004:292163 USPATFULL

TI Methods of metallizing nucleic acid molecules and methods of attaching nucleic acid molecules to conductive surfaces

IN DeBoer, Charles D., Palmyra, NY, UNITED STATES  
Greco, Roberta J., Canandaigua, NY, UNITED STATES  
Noonan, John M., Rochester, NY, UNITED STATES  
Murante, Richard S., Henrietta, N, UNITED STATES

PI US 2004229247 A1 20041118

AI US 2004-763597 A1 20040123 (10)

PRAI US 2003-442341P 20030123 (60)

DT Utility

FS APPLICATION

LREP Michael L. Goldman, Nixon Peabody LLP, Clinton Square, P.O. Box 31051,  
Rochester, NY, 14603-1051

CLMN Number of Claims: 32

ECL Exemplary Claim: 1

DRWN 5 Drawing Page(s)

LN.CNT 1707

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods of metallizing nucleic acid molecules and to methods of attaching nucleic acid molecules to conductive surfaces. Methods of detecting target nucleic acid molecules based on these techniques are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 2 OF 3 USPATFULL on STN  
AN 2004:221233 USPATFULL  
TI Detection of negatively charged polymers using water-soluble, cationic, polythiophene derivatives  
IN Leclerc, Mario, Quebec, CANADA  
Ho, Hoang Ahn, Sainte-Foy, CANADA  
Boissinot, Maurice, St-Augustin-de-Desmaures, CANADA  
PI US 2004171001 A1 20040902  
AI US 2004-474230 A1 20040405 (10)  
WO 2002-CA485 20020405  
PRAI US 2001-281371P 20010405 (60)  
US 2001-284184P 20010418 (60)  
US 2001-288442P 20010504 (60)  
DT Utility  
FS APPLICATION  
LREP FULBRIGHT & JAWORSKI L.L.P., 600 CONGRESS AVE., SUITE 2400, AUSTIN, TX, 78701  
CLMN Number of Claims: 41  
ECL Exemplary Claim: 1  
DRWN 21 Drawing Page(s)  
LN.CNT 1110

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel methods allowing for the simple optical and electrochemical detection of **double-stranded** oligonucleotides are disclosed. The methods are rapid, selective and versatile. Advantageously, they do not require any chemical reaction on the probes or on the analytes since they are based on different electrostatic interactions between cationic poly (3-alkoxy-4-methylthiophene) derivatives and single-stranded or **double-stranded** (hibridized) oligonucleotides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 3 USPATFULL on STN  
AN 1999:128361 USPATFULL  
TI Polymer-electrodes for detecting nucleic acid hybridization and method of use thereof  
IN Thorp, H. Holden, Chapel Hill, NC, United States  
Loomis, Carson R., Durham, NC, United States  
Napier, Mary E., Carrboro, NC, United States  
PA The University of North Carolina at Chapel Hill, Chapel Hill, NC, United States (U.S. corporation)  
Xantho, Inc., Research Triangle Park, NC, United States (U.S. corporation)  
PI US 5968745 19991019  
AI US 1997-950503 19971014 (8)  
RLI Continuation-in-part of Ser. No. US 1996-667338, filed on 20 Jun 1996, now patented, Pat. No. US 5871918, issued on 16 Feb 1999 which is a continuation-in-part of Ser. No. US 1995-495817, filed on 27 Jun 1995, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Campbell, Eggerton A.  
LREP Myers Bigel Sibley & Sajovec  
CLMN Number of Claims: 33  
ECL Exemplary Claim: 1  
DRWN 8 Drawing Figure(s); 5 Drawing Page(s)  
LN.CNT 1490

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A polymer-electrode including (a) a substrate having a conductive working surface; and (b) a polymer layer on the conductive working surface. The polymer layer has a plurality of microfluidic reaction openings distributed throughout the layer. An oligonucleotide probe can be attached to the polymer layer and is available to capture target nucleic acid. A soluble mediator can diffuse freely and transfer

electrons from the preselected base in the **hybridized** nucleic acid to the **conductive** working **surface** of the substrate. An electronic signal generated from the electron transfer reaction is detected and quantitated.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.